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ABSTRACT

These eleven papers focus on the need for technology education (TE) to address technological problem solving from a more holistic and appropriate level--less high tech, more thoughtful, and using available resources. "Philosophical Rationale for Appropriate Technology (AT)" (Robert C. Wicklein, Charles J. Kachmar) discusses concerns and issues that AT addresses. "Economics of AT" (Stephen Petrina, Patricia O'Riley) describes AT practices as decentralizing alternatives to large-scale and global market economies. "Ramifications of Failure to Use AT" (Charles H.McLaughlin, Jr.) describes resultant challenging problems related to land use and fisheries exploitation. "Moral and Ethical Issues Related to AT" (Roger B. Hill, Garner Dewey) focuses on environmental pollution, labor issues, and nonrenewable energy resources. "Design Criteria for Developing AT" (Marie Hoepfl) explores the role of design in creating technological solutions in keeping with AT goals and tenets. "Cultural and Gender Issues in AT" (Edward C. Pytlik et al.) discusses difficulties in transferring technology between more and less developed nations. "School-Based Issues and AT" (Peter Wright) argues that AT content and themes should be part of every TE classroom. "Multidisciplinary (MD)Curriculum and AT" (Vincent W. Childress) illustrates the MD nature of AT and provides a rationale for MD study of AT in TE. "Problem Solving in AT" (Michael Daugherty) discusses preparing TE students to comprehend and respect the power of technology to solve problems and create new problems. "AT Case Studies: Lessons Learned" (Charles Linnell, Dennis Scanlin) provides comparative information for TE teachers to make informed decisions concerning AT's value, uses, and relevance. "Future Directions for AT in the TE Curriculum" (Anthony F. Gilberti) addresses implementing TE curricula promoting social responsibility. Chapters may conclude with any or all of

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these: summary, review questions, activities, and references. An index is appended. (YLB)

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